ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

5 - Engineering and Manufacturing Development

0604768A Brilliant Anti-Armor (BAT) Submunition

5 5						, ,			
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	131940	142753	96102	58392	11656	7073	0	0	1780438
D641 BAT	43536	16877	0	0	0	0	0	0	1060087
D687 BAT P3I	49186	80707	68466	58320	11221	5569	0	0	393151
D688 ATACMS BLK II	38308	43015	27586	0	0	0	0	0	321786
D686 ATACMS BLK IIA	652	0	0	0	0	0	0	0	652
D2NT BAT Operational Test	258	2154	50	72	435	1504	0	0	4762

A. Mission Description and Justification: The BAT is the submunition in the Block II missile system that supports the Army's deep fire doctrine calling for the destruction and disruption of threat forces and long range weapons at ranges in excess of 100 kilometers before they can influence the maneuver battle. In the past, the only options have been to engage these targets with attack helicopters or fixed wing aircraft. While effective, these options place critical resources and their air crews at risk. The BAT system significantly reduces this risk through its autonomous acquisition and terminal guidance capabilities to attack well-defended armored forces behind enemy lines. The BAT system includes the BAT submunition, a pre-planned product improvement (P3I) BAT submunition, and the Army Tactical Missile System Block II (ATACMS BLK II) missile. BAT is a dual-sensor (acoustic and infrared) submunition that autonomously seeks out and destroys moving armored vehicles without human interaction. BAT and BAT P3I submunitions are carried deep into enemy territory by the Army TACMS, then dispensed over a large target array to selectively attack and destroy individual targets. The BAT P3I program will improve the sensor and warhead subassemblies to increase lethality and to enable the BAT submunition to attack cold, stationary, armored targets and other critical high priority targets. The ATACMS BLK II missile is a version of the currently fielded and combat-proven Army TACMS Block I missile and is designed to carry 13 BAT or BAT P3I submunitions.

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Exhibit R-2 (PE 0604768A)

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

5 - Engineering and Manufacturing Development

0604768A Brilliant Anti-Armor (BAT) Submunition

B. Program Change Summary	<u>FY 1999</u>	FY 2000	FY 2001
Previous President's Budget (FY 2000/2001 PB	128521	128026	112149
Appropriated Value	128858	144026	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-337		
b. SBIR / STTR	-460		
c. Omnibus or Other Above Threshold Reductions		-590	
d. Below Threshold Reprogramming	+3949		
e. Rescissions	-70	-683	
Adjustments to Budget Years Since FY 2000/2001 PB			-1295
New Army Transformation Adjustment			-14752
Current Budget Submit (FY 2001 PB)	131940	142753	96102

Change Summary Explanation: Funding - FY01: Project 686 was adjusted to reflect the New Army Transformation.

Page 2 of 14 Pages

Exhibit R-2 (PE 0604768A)

ARMY RDT&E BUDGET IT	EM JUS	TIFIC	ATION (R	-2A Exh	ibit)		February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Developm		e number and 0604768A		Anti-Armo	or (BAT)	Submuni		PROJECT D641	
COST (In Thousands)	FY 2000 Estimat		FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
D641 BAT	641 BAT 43536						0	0	1060087

A. <u>Mission Description and Justification</u>: The BAT submunition is an unpowered, aerodynamically stable vehicle approximately 36 inches long, 5.5 inches in diameter, and weighs 44 pounds. The BAT is an acoustic and infrared terminally guided submunition that searches for, tracks, and destroys moving armored combat vehicles. BAT submunitions are carried deep into enemy territory by a variant of the Army Tactical Missile System (ATACMS Block II), then dispensed over concentration of critical high-payoff targets to selectively attack and destroy individual targets. By using acoustic technology, BAT has the advantage of an extremely large footprint, which allows it to compensate for target location errors. Because the BAT is a certified round, it provides for low sustainment costs when coupled with the ATACMS Block II.

FY 1999 Accomplishments Program:

- 37542 Built hardware to support Initial Operational Test and Evaluation (IOT&E) and Live Fire Test and Evaluation (LFT&E)(supports FY 99 incremental funding of test article buildup (total test articles required is 98 BATs)
- 2999 Continued EMD program
- 2690 Supported Carrier Flight Testing and Other Integration Activities
- 305 Conducted Test Range and Target Operation, Maintenance and Improvement

Total 43536

FY 2000 Planned Program:

- Support IOT&E/LFT&E Qualification Tests (supports FY 00 incremental funding of test article buildup (total test articles required is 98 BATs)
- 2811 Conduct LFT&E
- 2933 Conduct Integration Activities
- 500 Conduct Test Range and Target Operation, Maintenance and Improvement
- 100 Trade studies and system improvement and optimization activities
- 455 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs

Total 16877

FY 2001 Planned Program: Project not funded in FY 2001

Project D641 Page 3 of 14 Pages Exhibit R-2A (PE 0604768A)

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

DATE

February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 5 - Engineering and Manufacturing Development 0604768A Brilliant Anti-Armor (BAT) Submunition D641 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 To **B.** Other Program Funding Summary FY 2005 Total Complete Cost 94529 142938 147713 2504019 Missile Procurement, Army 134987 222015 190789 196044 Continuing CA 6100 BAT C. Acquisition Strategy: The BAT system is a sole source EMD program. Upon completion of the development program, BAT submunitions will be procured as part of Army TACMS Block II/BAT systems by way of a sole source production contract with Lockheed Martin Missiles and Fire Contral-Dallas. Lockheed is the system integrator for the Army TACMS Block II/BAT missile system. This strategy is being followed for the FY99 and FY00 LRIP buys and will be continued through full rate production. FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2004 FY 2005 D. Schedule Profile Block II/BAT LRIP DAB* 2QTR Award LRIP I Contract* 3OTR **THC Oualification Tests** 2QTR First THC Deliveries 2OTR IOT&E Tests Begin 3OTR LFT&E Tests Begin 4QTR Block II/BAT MSIII Decision (ASARC) 3QTR * Milestone completed. Exhibit R-2A (PE 0604768A) Project D641 Page 4 of 14 Pages

	711	MY RDT&E CO	DSI AN	IALYS	IS (R-3)		DATE February 2000						
BUDGET ACTIVITY 5 - Engineering and N	/lanufactu	ring Developme	nt		UMBER ANI 04768A		t Anti-A	rmor (B	AT) Suk	munitio	PR	PROJECT D641	
	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
	SS/CPAF/ CPFF/CPIF/ FPIF		767362	39881		14588					821831		
b. RDEC Support			35897	815							36712		
Subtotal Product Development:			803259	40696		14588					858543		
	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
	SS/CPFF		60848	490	Date		Date		Date		61338	Contract	
	PO		46937	362		68					47367		
Subtotal Support Costs:			107785	852		68					108705		
	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
1	PO		22551	0	Butte	2021	Bute		Duite		24572	Contract	
	PO		15758	669		2021					16427		
Subtotal Test and Evaluation:			38309	669		2021					40999		
	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a. In-House Support	PO		50321	1319		200					51840		
Subtotal Management Services:			50321	1319		200					51840		
Project Total Cost:			999674	43536		16877					1060087		
Project D641				Page 5 of	14 Pages				Exhibit R-	-3 (PE 060	4768A)		

ARMY RDT&E BUDGET ITE	EM JUS	TIFICA	TION (R	-2A Exh	ibit)		February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Developm	nent		NUMBER AND 604768A		Anti-Armo	or (BAT)	Submuni	-	PROJECT D687	
COST (In Thousands)	COST (In Thousands) FY1999 F Actual E					FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
D687 BAT P3I	687 BAT P3I 49186						0	0	393151	

A. <u>Mission Description and Justification</u>: The BAT P3I submunition maintains the Basic BAT length, diameter, and weight configurations while increasing submunition lethality and expanding the target set to be attacked. The BAT P3I program will incorporate new seeker, warhead, and microprocessor technologies into the current Basic BAT configuration while maintaining the current BAT form, fit and maximum commonality of BAT components. This program includes studies/demos pertaining to technology advancements, alternate carriers, target recognition, and acoustic/infrared/millimeter wave characterization of expanded target sets. The BAT P3I is a multi-sensored, terminally guided submunition that searches, tracks, and destroys specific targets including mobile armored combat vehicles, cold stationary armored combat vehicles, Surface-to-Surface missile (SSM) Transporter Erector Launchers (TELs), and Heavy Multiple Rocket Launchers (MRLs). BAT P3I submunitions are carried deep into enemy territory by the Army Tactical Missile System (ATACMS), then dispensed over numerous high-payoff target concentrations to selectively attack and destroy individual targets. As a certified round, the BAT P3I submunition provides a low sustainment cost when coupled with the ATACMS Block II.

FY 1999 Planned Program:

- 26886 Completed P3I PDRR and started Continued Development Program
- 16000 Procured Test Hardware (18 Seekers and 17 BAT common hardware test articles)
- 2200 Conducted Target Signature Collection Activities and CFT preparation
- 2400 Continued Hardware-in-the-Loop Seeker Assessments
- 1500 Conducted Simulations and Algorithm Development
- 200 Trade studies, Cost as an Independent Variable (CAIV) initiatives, risk reduction and system improvement and optimization activities

Total 49186

FY 2000 Planned Program:

- 32221 Continue P3I BAT Seeker Development and Design
- 18213 Conduct CFTs and Recoverable Flight Tests
- 17900 Fabricate/Assemble Engineering Test Hardware (50 Seeker test articles)
- 2000 Conduct Warhead performance tests
- 3500 Continue Hardware-in-the-Loop Operations
- 3500 Simulation Analysis and Modeling
- 1000 Missile Carrier Integration
- Trade studies, CAIV initiatives, risk reduction and system improvement and optimization activities

Project D687 Page 6 of 14 Pages Exhibit R-2A (PE 0604768A)

2173 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs
 Total 80707

FY 2001 Planned Program:

- 28739 Continue Seeker Integration and System Testing
- 15200 Complete Design and Fabricate P3I BAT Seeker Hardware
- 14277 Conduct Engineering Design/Design Verification Tests
- 4000 Continue Hardware-in-the-Loop Operations
- 2000 Missile Carrier Integration
- 4000 Simulation Analysis
- 250 Trade studies, CAIV initiatives, risk reduction and system improvement and optimization activities

Total 68466

B. Other Program Funding Summary: There are no other related RDT&E or other appropriation efforts.

<u>C. Acquisition Strategy:</u> The BAT P3I system employs a sole source contract with the prime contractor, Northrop Grumman Corporation. Production cut-in of BAT P3I onto the ATACMS Block II will provide full capability against moving and stationary armored targets.

D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2	2005
Captive Flight Test (CFT)		1&3QTR	2QTR					
Continuous CFT (Seeker Tests)	4QTR*	1&3QTR						
Warhead Testing	1-4QTR*	1-2QTR						
Continue Dual Mode Radar Seeker Design	1-4QTR*	1-4QTR						
Hardware-in-the-Loop Testing	1-4QTR*	1-4QTR	1-4QTR	1-4QTR	1-4QTR			
Tactical Prototype Seeker Integration		2&3QTR						
Recoverable BAT Tests		2QTR	1&4QTR	3QTR				
Engineering Development Tests (EDTs)			3&4QTR	4QTR	1&4QTR			
Warhead LFT&E/Soft Target					3QTR			
Software CDR			4QTR					
Design Verification Tests			3&4QTR					
Envir Stress Test (EST) Prod Qual Tests (PQT)			4QTR	1QTR				
DT System Tests (Block II)				2QTR				

^{*}Milestone completed.

Project D687 Page 7 of 14 Pages Exhibit R-2A (PE 0604768A)

ARMY RDT&E BUD	GET ITE	M JUST	IFICATI	ON (R-2	A Exhil	bit)		DATE February	2000
BUDGET ACTIVITY 5 - Engineering and Manufacturing D	Developme	ent		MBER AND TI 1768A BI	r (BAT) \$	Submunition	PROJECT D687		
D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005		
Blk II/P3I BAT Production Cut-In Decision				3QTR					
Blk II/P3I BAT Continue Production Decision							1QTR		
Blk II/P3I BAT Limited User Tests (LUTS)						4QTR			
Project D687			Page 8 of 14	4 Pages			<u>Exhibit</u>	: R-2A (PE 060476	8A)

	Al	RMY RDT&E CO	OST AN	IALYS	IS (R-3))			DA	TE Febr	uary 200	00
BUDGET ACTIVITY 5 - Engineering and	Manufact	uring Developme	nt		UMBER ANI 04768A		t Anti-A	rmor (B	AT) Suk	omunitio	PR	OJECT 687
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Targe Value of Contrac
a. Northrop Grumman Corpb. RDEC Support*	SS-CPIF PO		93175 9919	40161 3731		55223 3999		43873 2475		50112 4498	282544 24622	
c. TRW d. Lockheed	SS-CPIF SS-CPIF		,,,,,			2896 500		500		1100	2896 2100	
Subtotal Product Development:	SS CIT		103094	43892		62618		46848		55710	312162	
Remark: *Includes Hardware-in-	the Loop costs		ı		ı	ı	ı	ı		1		
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Targe Value of Contract
a. Sys Eng Tech Assist & Program Mgmt Spt	SS-CPFF		2655	1143		1140		1200		3400	9538	
b. Misc Other Gov Act Subtotal Support Costs:	РО		2731 5386	525 1668		113 1253		125 1325		350 3750	3844 13382	
•												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Targe Value of Contrac
a. Range Support	PO		35	235		1542		6835		8995	17642	
b. Other Test Activities	PO		5995	1316		11519		10080		3210	32120	
Subtotal Test and Evaluation:			6030	1551		13061		16915		12205	49762	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. In-House Support	PO		5172	2075		3775		3378		3445	17845	
Subtotal Management Services:			5172	2075		3775		3378		3445	17845	
Project Total Cost:			119682	49186		80707		68466		75110	393151	
Project D697				Page 0 of	14 Pages				Evhihit D	-3 (DE 060	M768A)	
Project D687				Page 9 of	14 Pages				Exhibit R	-3 (PE 060	4768A)	

ARMY RDT&E BUDGET IT	EM JUS	TIFIC	ATION (R	-2A Exh	ibit)		February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Developm		E NUMBER AND 1604768A		Anti-Armo	or (BAT)	Submuni		PROJECT D688	
COST (In Thousands)	COST (In Thousands) FY1999 FY Actual Es					FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D688 ATACMS BLK II	688 ATACMS BLK II 38308						0	0	321786

A. <u>Mission Description and Justification</u>: The Army Tactical Missile System Block II (ATACMS BLK II) is a ground launched, solid propellant, inertially guided Global Positioning System (GPS)-aided missile system with 13 Basic BATs or BAT P3Is as its payload. The mission of the ATACMS BLK II is to delay, disrupt, neutralize, or destroy armored combat vehicles and other critical high-payoff targets. Once the BAT P3I submunition is incorporated into the ATACMS BLK II, the target set will expand to include cold stationary armored combat vehicles. The ATACMS BLK II will carry and dispense BAT and BAT P3I submunitions deep into enemy territory where these submunitions will autonomously track and destroy numerous critical high-payoff targets. The ATACMS BLK II will be capable of being launched from the M270 Launcher with the Improved Position Determining System (IPDS) and the M270A1 launcher. Funds also cover the costs of trade studies/demonstrations pertaining to technology advancements, payload variants, propulsion, guidance and control, and fire control improvements.

FY 1999 Planned Program:

- 24702 Continued Development and Subsystem Qualification
- 6299 Continued pilot production line and IOT&E preparation activities
- 3483 Completed PQT and conduct development testing (DT)
- 1073 Conducted M270A1 Launcher Integration Tests
- 1451 Conducted C4I System Integration Tests
- 1300 Continued Command and Control Software Design, Development and Test

Total 38308

FY 2000 Planned Program:

- 16533 Prepare for and conduct IOT&E
- 16000 TACMS 2000 Cost reduction activities for Block II/BAT Missile System
- 4724 Complete missile and submunition integration activities and complete DT
- 2100 Continue Command and Control Software Design, Development and Test
- 2000 Complete Launcher Integration Tests
- 500 Trade studies and system improvement and optimization activities
- 1158 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs

Total 43015

Project D688 Page 10 of 14 Pages Exhibit R-2A (PE 0604768A)

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

DATE

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

5 - Engineering and Manufacturing Development

0604768A Brilliant Anti-Armor (BAT) Submunition

D688

FY 2001 Planned Program:

- 14186 Continue and complete IOT&E
- 400 Continue Command and Control Software Design, Development and Test
- 13000 Trade studies and system improvement and optimization activities

Total 27586

B. Funding Other Program Summary								To	Total
	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	Cost
Missile Procurement, Army	55146	85113	96719	114822	153639	125159	113266	Continuing	1669205
CA 6105 ATACMS BLK II									

B. Acquisition Strategy: The Army Tactical Missile System Block II is a sole source EMD program. Upon completion of the development program, the Army TACMS Block II/BAT systems will be procured by way of a sole source production contract with Lockheed Martin Missiles and Fire Control-Dallas. Lockheed is the system integrator for the Army TACMS Block II/BAT missile system. This strategy is being followed for the FY99 and FY00 LRIP buys and will be continued through full rate production.

D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
PQT Flight Tests*	1QTR						
Block II/BAT LRIP DAB*	2QTR						
DT/OT Flight Test Complete		3QTR					
IOT&E Testing		3/4QTR	1QTR				
Block II/BAT MS III Decision (ASARC)			3QTR				

^{*}Milestone Completed

Project D688

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Exhibit R-2A (PE 0604768A)

	Al	RMY RDT&E CO	OST AN	IALYS	IS (R-3))			DA		uary 200)0
BUDGET ACTIVITY 5 - Engineering and	Manufact	uring Developme	nt		UMBER ANI 04768A		t Anti-A	rmor (B	AT) Suk	omunitio	PR	OJECT 688
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Targe Value of Contrac
a. LMVSb. RDEC Support	SS/CPIF PO		164099 7012	19009 1026		22678 2263		8970 1500			214756 11801	
Subtotal Product Development:			171111	20035		24941		10470			226557	
II. Support Costs	Contract	Performing Activity &	Total	FY 1999	FY 1999	FY 2000	FY 2000	FY 2001	FY 2001	Cost To	Total	Targe
II. Support Costs	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value o Contrac
a. Sys Eng Tech Assist & Program Mgmt Spt	SS/CPFF		4177	1447		1579		1140			8343	
b. Misc OGA Activities	PO		9772	923 2370		660		500			11855	
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Range Support	PO		8381	6229	Date	8026	Date	6554	Date		29190	Contrac
b. Other Test Activity	PO		5984	6487		3925		5273			21669	
Subtotal Test and Evaluation:			14365	12716		11951		11827			50859	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a. In-House Support	PO		13452	3187		3884		3649			24172	
Subtotal Management Services:			13452	3187		3884		3649			24172	
Project Total Cost:			212877	38308		43015		27586			321786	
Project D688				Page 12 o	f 14 Pages				Exhihit R	-3 (PE 060	4768A)	
110,000 2000			·	02						5 (. <u>L</u> 500	00, 1,	

ARMY RDT&E BUDGET IT	February 2000								
BUDGET ACTIVITY 5 - Engineering and Manufacturing Developm		PE NUMBER AND TITLE 0604768A Brilliant Anti-Armor (BAT)					PROJECT Submunition D686		
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate		FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D686 ATACMS BLK IIA	652		0 0	0	0	0	0	0	652

A. <u>Mission Description and Justification:</u> The Army TACMS Block IIA (ATACMS Block IIA) will be a ground launched, solid propellant, inertially guided Global Positioning System (GPS) aided missile system with 6 BAT P3I submunitions as its payload. The mission of the ATACMS Block IIA will be to delay, disrupt, or destroy the Block II target sets plus cold stationary armored combat vehicles as well as moving and stationary heavy multiple rocket launchers (MRLs) and surface-to-surface missile (SSM) transporter erector launchers (TELs). The ATACMS Block IIA will be launched from the M270A1 launcher in response to the same Command and Control (C2) systems applicable to the Block I, Block IA, and Block II missiles. The range of the Block IIA missile will be significantly greater than that of the Block II. The Army TACMS Block IIA was terminated and the funds realigned in support of higher priority requirements of the New Army Transformation.

FY 1999 Planned Program:

652 Awarded trade studies and system improvement and optimization activities contract

Total 652

FY 2000 Planned Program: Project not funded in FY 2000

FY 2001 Planned Program: Project not funded in FY 2001

- **B.** Other Program Funding Summary: There are no other RDT&E of other appropriation efforts
- C. Acquisition Strategy: Not applicable.
- D. Schedule Profile: There are no applicable schedule milestones for this effort

Project D686 Page 13 of 14 Pages Exhibit R-2A (PE 0604768A)

DATE **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 5 - Engineering and Manufacturing Development 0604768A Brilliant Anti-Armor (BAT) Submunition D2NT FY2004 FY1999 FY 2000 FY 2001 FY 2002 FY 2003 FY2005 Total Cost Cost to COST (In Thousands) Actual Estimate Estimate Estimate Estimate Estimate Estimate Complete D2NT BAT Operational Test 72 258 2154 50 435 1504 4762

A. <u>Mission Description and Justification</u>: Project D2NT finances the direct costs of planning and conducting operational testing and evaluation of the BAT submunition by the Operational Test and Evaluation Command (OPTEC). Operational testing is conducted under conditions as similar as possible to those encountered in actual combat with typical soldiers trained to employ the system. OPTEC provides the Army leadership with an independent test and evaluation of both the effectiveness and suitability of the system.

FY 1999 Planned Program:

• 258 IOTE planning and preparation

Total 258

FY 2000 Planned Program:

- 2096 IOTE planning and preparation. Support IOTE tests.
- Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs

Total 2154

FY 2001 Planned Program:

• 50 IOTE planning and preparation

Total 50

- B. Other Program Funding Summary: There are no other related RDT&E or other appropriation efforts.
- C. Acquisition Strategy: Not applicable.

D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Planning and Preparation of IOT&E Activities	1QTR*	1QTR	1QTR	1QTR	1QTR	1QTR	

^{*}Milestone completed

Project D2NT Page 14 of 14 Pages Exhibit R-2A (PE 0604768A)